## CLAIMS

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1	1. A method for measuring at least one of a Kerr effect and lubricant thickness on a
2	first object, comprising the steps of:
3	transmitting a first light signal toward the first object;
4	receiving a reflected light signal that has reflected off said first object, said reflected light
5	signal comprising a first mixed reflected polarized component having a first phase and a second
6	mixed reflected polarized component having a different phase;
7	separating from said reflected light signal said first mixed reflected polarized light signal
8	component having a first phase and said second mixed reflected polarized light signal component
9	having a different phase, wherein said first mixed reflected polarized light signal component
10	comprises both P-polarized and S-polarized light relative to the plane of incidence of said
11	reflected light signal, and wherein said second mixed reflected polarized light signal component
12	comprises both P-polarized and S-polarized light relative to the plane of incidence of said
13	reflected light signal;
14	detecting a first intensity of said first mixed reflected polarized light signal component;
15	detecting a second intensity of said second mixed reflected polarized light signal
16	component;
17	determining a difference in phase between said first and second mixed reflected polarized
18	light signal components based upon said first and second intensities; and
19	measuring at least one of the Kerr effect and the lubricant thickness based upon said
20	difference in phase.